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U.S. Department of Transportation, Docket Operations West Building Ground Floor, Room W12-140 1200 New Jersey Avenue, SE Washington, DC 20590

Re: Petition for an Exemption to Conduct Unmanned Aircraft Systems (UAS) Operations Allowed by Special authority for certain unmanned aircraft systems. Title 49 U.S.C. § 44807, and 14 C.F.R. Part 11 to Authorize Commercial Agricultural- Related Services with UAS Weighing 55 Pounds or More

A. SUMMARY:

AeroTract Geospatial, an agricultural services company (hereafter known as AeroTract), and pursuant to Title 49 U.S.C. § 44807, Special authority for certain unmanned aircraft systems and 14 C.F.R. Part 11, hereby respectfully requests expedited approval and necessary exemptions from the following listed Code of Federal Regulations ("CFR") for the purpose of operating the DJI AGRAS T-30 unmanned aircraft systems ("UAS") weighing over 55 pounds but no more than 172.0 pounds (147 pounds for liquid and 172 pounds for dry material) for vegetation control in row-crop, electrical utility right of ways, pipeline and railroad right of way applications. The operations will be conducted within and under the conditions outlined herein, or as may be established by the FAA, as required by Title 49 U.S.C. § 44807.

The proposed operation in this Petition for Exemption is similar in nature to those currently conducted by Branch Enterprises, Inc. Exemption No. 18579, except the aircraft will be the DJI Agras T-30 instead of the HSE-UAV M8A Pro.

As described more fully below, in this particular petition, the requested exemption would permit the operation of no more than one DJI Agras T-30 by petitioner, under controlled conditions in predetermined airspace that is, 1) Limited in scope 2) Controlled as to access by mission essential personnel only. Grant of the requested exemption is based upon the concise direction expressed within Title 49 U.S.C. § 44807; the added authority granted by the Act, as amended; an equivalent level of safety regarding flight operations as expressed herein, and significant cost savings achieved by transitioning from traditional manned aerial resources to UAS's. The petitioner respectfully requests that the FAA grant the requested exemption without delay. Petitioner will operate the DJI Agras T-30 while keeping the documents required by the regulations at the ground control station and accessible to the Pilot in Command (PIC) and by modification of the required markings (registration number) of the UAS to be displayed on the fuselage.

The name and address of the Petitioner is:

AeroTract Geospatial 2660 County Road 327 Granger, TX 76530

The primary contact for this petition is:

Jake Ferrigan

In support of this Petition for Exemption, AeroTract will submit the following associated UAS operating documents:

- AeroTract Training and Certification Program
- DJI Agras T30 Comprehensive Flight Operations and Procedures Manual (User Manual)
- AeroTract Operational Risk and Safety Manual
- DJI AGRAS T-30 Pre and Post-Flight
- DJI Agras T-30 Spec Sheet

AeroTract, LLC will operate only within the limitations above and any limitations listed in the manufacturer's manuals. Additionally, the remote pilots will go through company training using the training manual and operate the company's flight operations manual. The limitations above, from the previously granted exemption (#18813, exemptions for similar model drone T16), will be followed if there is a conflict with any of the manuals.

These documents will be submitted on a confidential basis under separate cover, pursuant to 14 C.F.R. § 11.35(b), as the documents contain confidential commercial and proprietary information that AeroTract has not and will not share with others. The information contained in this material is not generally available to the public and is protected from release under the Freedom of Information Act, 5 U.S.C. §552 *et seq.*

B. BACKGROUND OF PETITIONER AND MANUFACTURER

AeroTract Geospatial is a provider of agricultural and forestry services for a wide variety of commercial clients throughout the State of Texas. AeroTract is utilizing its experience in agriculture to expand into missions well suited for UAS/drones to reduce risk and improve efficiencies and value-added. AeroTract plans to provide a wide array of services in agricultural markets where UAS/drones fit the mission better and safer than manned aircraft. The major benefits to the general public are 1) reduction in injury to ground-based applicators in challenging terrain, 2) reduced exposure to chemicals for applicators, 3) reduction in chemical drift compared to manned aircraft application, 4) reduced risk to flight crew compared to manned aircraft, 5) reduced exposure of surrounding beneficial vegetation, 6) more environmentally friendly application with reduced noise, 7) selective use of chemicals for a safer more targeted application, and 8) better value for the customer. The UAS for the purposes of this petition is the DJI Agras T-30.

DJI has an unparalleled presence in the UAS market with a commitment to R&D, a culture of constant innovation, and a focus on transforming complex technology into easy-to-use devices. Building on the ethos of "form follows function," DJI products combine advanced technology with dynamic designs.

Established to produce DJI's innovative products safely and responsibly, the wholly-owned subsidiary Shenzhen Dajiang Baiwang Technology Co., Ltd. is a high-tech manufacturing facility specializing in

unmanned aerial vehicles.

In 2016, Dajiang Baiwang passed the ISO 9001:2015 Quality Management System Certification, and in 2017 passed the SGS ISO 14001:2015 Environmental Management System Certification.

DJI's offices can now be found in the United States, Germany, the Netherlands, Japan, South Korea, Beijing, Shanghai, and Hong Kong. As a privately owned and operated company, DJI focuses on its vision, supporting creative, commercial, and nonprofit applications of their technology.

Today, DJI products are redefining industries. Professionals in filmmaking, agriculture, conservation, search and rescue, energy infrastructure, police, fire, and more, customers trust DJI to bring new perspectives to their work and help them accomplish feats safer, faster, and with greater efficiency than ever before. To date, the Agras line has logged over 5 million hours of testing and flight telemetry data and has sold over 250,000 units worldwide.

C. SYSTEM BENEFITS AND PUBLIC INTEREST

- 1. AeroTract's intent along with a complete range of vegetation and noxious weed control and management services, is to provide a wide array of services to the utility, telecommunications, oiland gas, and agricultural sector utilizing the DJI T-30 system optimized principally for spray and granular applications. Their processes protect crops from biological organisms, including weeds pathogens, and arthropods, which interfere with the production of crops affecting quality and/or yield, which can impact consumers through higher crop prices. Spraying herbicides benefits agricultural ecology and increases the efficiency of harvesting operations. Further, the selective use of chemicals for a safer more targeted application for utility weed control reduces the negative impact of excess pesticide application and residual chemicals being left in the soil or running off into streams or the water table.
- 2. Applications by manned aircraft for agriculture carry significant risks of fatality.¹ This was such a concern that in 2014 the National Transportation and Safety Board commissioned a report to understand root causes. The enhanced safety achieved using an unmanned aircraft with the specifications described in this petition, as opposed to the much larger, manned aircraft carrying fuel and crew or passengers, is safer and exposes workers and other people on the ground to significantly less risk. Additionally, AeroTract's UA uses batteries that are not as flammable and explosive as 100LL or Jet A fuel. If there was an emergency where the UA crashed, there is a significantly lower chance of individuals being injured from an explosion or fire.
- 3. According to a USDA Economic Research Service Report, of the United States 408 million acres of cropland, about 70% (286 million acres) is commercially treated with crop protection products. Out of that, the agricultural aviation industry treats 71 million acres of cropland aerially each year. By utilizing UAS, this vital portion of our nation's food supply can be treated in a more environmentally safe way, thus protecting our streams from excessive chemical runoff, algae blooms, etc.
- 4. A substantial portion of the agricultural land is currently sprayed by crews on foot, carrying heavy loads ontheir backs. AeroTract will replace this method using its aircraft. It is in the interest of safety to reduce worker exposure to this difficult and dangerous environment, thus preventing physical harm incurred by missteps or worn out joints.

¹ See e.g., NTSB Special Investigative Report on the Safety of Agricultural Aircraft Operations, NTSB/SIR-14/01 (Adopted May 7, 2014): "78 accidents [and 10 fatalities] occurred during the calendar year 2013 and involved some aspect of agricultural (ag) operations, pilot training, or other crop protection activities. The report identifies the following recurring safety issues: lack of ag operations-specific fatigue management guidance, lack of ag operations-specific risk management guidance, inadequate aircraft maintenance, and lack of guidance for pilot knowledge and skills tests."

- 5. Manned aircraft availability and schedules are becoming increasingly difficult and costly for operations. On average, each manned aerial application business has 2.1 aircraft, ranging in price from \$100,000 to \$1,400,000 depending on hopper size, engine type, and engine size. Pilot shortages, aircraft shortages, and driver shortages are increasing. Smaller owners and non-governmental organizations without several hundred thousand acres are finding it difficult to obtain economical services with these figures. AeroTract can increase service providers at a lower cost and alleviate pilot and service shortages for small landowners.
- 6. Manned airplanes and helicopters produce significant noise pollution that disrupts the public's ability to enjoy both private and public property. UAS are much quieter and will not disrupt the public as much as manned aircraft; thus, the benefit will be recognized as a reduction in noise pollution.
- 7. Pesticides being sprayed from high elevations can be picked up by the wind and carried for miles. By flying at a lower altitude (3-9 m), and by never leaving the customer's site, there is a significantly reduced chance of pesticides being accidentally sprayed in the wrong area. With manned aircraft and helicopters, this can happen in a number of ways: Pilot error or map misinterpretation en route to the site, pesticides being picked up by the wind and blown onto neighboring property affecting commercial cropland and residential areas, and equipment malfunction.

D. DESCRIPTION OF THE AGRAS T-30 UAS

The Agras T30 is DJI's next-generation aircraft, boasting a revolutionary transforming structure and a max payload of up to 40 kg. Using DJI's digital agriculture solutions, the performance and efficiency of crop protection operations can be greatly enhanced and improved. The updated Route Operation mode includes Connection Routing, which enables the aircraft to automatically fly to a task route and avoid obstacles that have been marked in field planning. The new Smart Supply Reminder calculates the remaining liquid amount to help users manage spraying operations.

Ease of use and construction - The T30 features a brand-new quadrilateral folding structure design for quick folding and easy storage. Folding detection sensors built into the frame arms enable the aircraft to perform a folding mechanism self-check ensuring the arms are properly unfolded. The aircraft supports centimeter-level positioning when used with the onboard D-RTK while the dual-antenna technology provides strong resistance against magnetic interference. Users have clear views of the front and rear of the aircraft thanks to the dual FPV cameras.

Spraying Efficiency - Thanks to the innovative new plunger pumps and the 16 sprinklers, the spraying system offers improved spray width, rate, distribution, and efficiency. The 2-channel electromagnetic flow meter and continuous liquid level gauge make measurements more accurate than ever. To spray orchards, users can purchase the optional orchard spray package to transform the aircraft into Orchard Configuration. When spraying orchards, branch-targeting technology can be used for precise spraying with the help of the all-new Spherical Radar System and DJI Agras Cloud.

Signal Redundancies - The all-new modular aerial-electronics system in the T30 has dual IMUs and barometers and adopts a propulsion signal redundancy design to ensure flight safety. The GNSS+RTK dual-redundancy system supports centimeter-level positioning. It also supports dual-antenna technology that provides strong resistance against magnetic interference.

Onboard Radar - The Spherical Radar System consists of the Omnidirectional Digital Radar and Upward Radar, providing altitude detection and stabilization in forward, backward, and downward directions as well as obstacle sensing in all horizontal directions and upward direction when in Route, A-B Route, and Manual Plus operation modes. The radar can detect the angle of a slope and automatically adjust to maintain the same distance with the surface even in mountainous terrain. In Route and A-B Route operation modes, the radar can effectively sense obstacles and plan a route to actively circumvent obstacles. Obstacle circumvention is disabled by default and must be enabled in the app.

Multiple Aircraft Capability - The T30 provides different modes for flat ground, mountains, and orchards, to meet most operational needs. Up to five T-30 aircraft can be controlled by a single T30 remote controller simultaneously.

AeroTract in this exemption is only requesting a single aircraft for a single pilot

Specifications:

Airframe	
Max Diagonal Wheelbase	2145 mm
Dimensions	2858×2685×790 mm (Arms and propellers unfolded) 2030×1866×790 mm (Arms unfolded and propellers folded) 1170×670×857 mm (Arms and propellers folded)
Propulsion System	
Motor	
Max Power	3600 W/rotor
Foldable Propellers (R3820)	
Diameter and Pitch	38 x 20
Spraying System	
Spray Tank	
Volume	Full: 30 L
Fully loaded	Full: 30 kg
Nozzles	
Model	XR11001VS (standard), XR110015VS (optional, purchase separately), TX-VK4/ZX-VK4 (optional for Orchard Configuration, purchase separately)
Quantity	16
Max Spray Rate	XR11001VS: 7.2 L/min, XR110015VS: 8 L/min
Spray Width	4-9 m (12 nozzles, at a height of 1.5-3 m above crops)
Droplet Size	XR11001VS: 130-250 μm, XR110015VS: 170-265 μm (subject to operating environment and spray rate)
Weight and Battery	
Total Weight (Excluding battery)	26.3 kg

Max Takeoff Weight Spraying	66.5 kg
Max Takeoff Weight Spreading	78 KG
Max Power Consumption	13,000 Watt
Battery	DJI-approved flight battery (BAX501-29000mAh-51.8V)

Intelligent Battery Charging Station

Up to 4 batteries can be charged simultaneously using the DJI Charging station, a full charge only takes 10 minutes, a 100% increase in speed from the previous generation. The charger has a built-in battery health management system that monitors critical data in real-time, such as voltage and temperature, to ensure charging safety.

T-30 Intelligent Flight Battery

The T30 Intelligent Flight Battery has a capacity of 29,000 mAh and a 51.8 high voltage system that reduces power consumption. It is designed with an IP54-rated all-metal housing, and heat dissipation efficiency has increased by 140% from the previous generation. Supported by cell-balancing technology, the battery has an increased charging cycle of up to 1000, 150% higher than the previous generation, significantly reducing operating costs.

E. Standard Components and Safety Systems

The T30 has an aerial-electronics system with a multiple redundancy design, and also has onboard D-RTK antennas, supporting dual-antenna technology that provides strong resistance against magnetic interference to ensure flight safety. Thanks to the dedicated DJI industrial flight control system, the T30 offers four operation modes: Route, A-B Route, Manual, and Manual Plus. DJI MG2 automatically produces flight routes based on your planned fields. To start, simply select the field from the field list. Plan a field by walking with the remote controller, an RTK handheld mapping device, or by flying the aircraft to waypoints, according to the application scenarios. In scenarios with complicated terrain, use the Phantom 4 RTK and DJI Terra to plan 3D flight routes, and import the routes to DJI MG2 for operation.

In A-B Route operation mode, the aircraft travels along a planned route and sprays its liquid payload. Users can set the line spacing, flying speed, and other parameters.

In Manual operation mode, users can start and stop spraying manually, and also adjust the spray rate.

In Manual Plus operation mode, the flight speed is restricted, and the heading is locked. Except for the heading, users can control the movement of the aircraft via the control sticks.

Press button C1 or C2 on the remote controller or the corresponding button in the app and the aircraft will fly one-line spacing to the left or right. Note that this is the default function for button C1 and button C2. They are customizable in the app.

The T30 also includes the Operation Resumption function. When pausing the operation in Route or A B Route operation mode, Operation Resumption records a breakpoint for the aircraft. Users can resume from the breakpoint when continuing the operation.

The remote controller features Multi-Aircraft Control mode, which can be used to coordinate the operation of up to five aircraft simultaneously. Turn the aircraft control switch dial on the remote controller to switch control between different aircraft.

The digital radar works automatically in Route, A-B Route, and Manual Plus operation modes during both day and night, without being affected by light or dust.

Altitude detection and stabilization functions are available in forward, backward, and downward directions while Obstacle Avoidance is available in all horizontal directions, downward and upward.

The radar module can detect the angle of a slope and automatically adjust to maintain the same distance with the surface even in mountainous terrain. In Route and A-B Route operation modes, the radar can

effectively sense obstacles and plan a flight route to actively circumvent obstacles. Note that this is disabled by default. Users can enable it in the app.

The upgraded spraying system includes sixteen sprinklers placed on both sides of the aircraft to provide evenly distributed spraying and coverage of the liquid payload, and an all-new electromagnetic flowmeter for higher precision and stability than conventional flow meters.

The T30 uses a dedicated DJI industrial flight controller to provide multiple operation modes for various applications. The radar provides terrain following to guide the aircraft to maintain a constant distance above crops in specific operation modes and is capable to actively circumvent obstacles through Auto Bypass. Functions such as operation resumption, system data protection, empty tank warning, low battery level warning, and RTH are also available.

F. Flight Modes

P-mode (Positioning): The aircraft utilizes GNSS or the RTK module for positioning. When the GNSS signal is strong, the aircraft uses GNSS for positioning. When the RTK module is enabled and the differential data transmission is strong, it provides centimeter-level positioning. The aircraft reverts to A-mode when the GNSS signal is weak. The aircraft will fly in P-mode by default.

A-mode (Attitude): GNSS is not used for positioning and the aircraft can only maintain altitude using the barometer. The aircraft enters A-mode only when there is a weak GNSS signal or when the compass experiences interference. The flight speed in A-mode depends on its surroundings such as the wind speed. In A-mode, the aircraft cannot position itself and is easily affected by its surroundings, which may result in horizontal shifting. Use the remote controller to position the aircraft. Maneuvering the aircraft in A-mode can be difficult. Avoid flying in confined spaces or in areas where the GNSS signal is weak. Otherwise, the aircraft will enter A-mode, leading to potential flight risks. Land the aircraft in a safe place as soon as possible.

G. System Data Protection

In Route or Route A-B operation mode, the System Data Protection feature enables the aircraft to retain vital system data such as operation progress and breakpoints after the aircraft is powered off to replace a battery or refill the spray tank. Follow the instructions in Operation Resumption to resume the operation after restarting the aircraft.

During Route operations, in situations such as when the app crashes or the remote controller disconnects from the aircraft, the breakpoint will be recorded by the flight controller and can be recovered in the app once the aircraft is reconnected. Go to Operation View, select, then Advanced Settings and tap Continue Unfinished Task. Recall the operation in Executing tag in the operation list.

H. Obstacle Avoidance

Obstacle avoidance is used in the following two scenarios:

- 1. The aircraft begins to decelerate when it detects an obstacle is 15 m away and hovers in place when 2.5 m away from the obstacle. Users can not accelerate in the direction of the obstacle but can fly in a direction away from the obstacle.
- 2. The aircraft immediately brakes and hovers if it detects an obstacle nearby. Users cannot control the aircraft when it is braking.

When the aircraft is hovering, it is in Obstacle Avoidance mode. Users can fly in a direction away from the obstacle to exit Obstacle Avoidance mode and regain full control of the aircraft.

I. Return to Home (RTH)

There are two types of RTH: Smart RTH and Failsafe RTH.

Smart RTH

Press and hold the RTH button on the remote controller when GNSS is available to enable Smart RTH. Both Smart and Failsafe RTH use the same procedure. With Smart RTH, you may control the altitude of the aircraft to avoid collisions when returning to the home point. Press the RTH button once or push the pitch stick to exit Smart RTH and regain control of the aircraft.

Failsafe RTH

Failsafe RTH is automatically activated if the remote controller signal is lost for more than three seconds, provided that the home point has been successfully recorded, the GNSS signal is strong, and the RTK module is able to measure the heading of the aircraft. The RTH continues if the remote controller signal is recovered, and users can control the aircraft using the remote controller. Press the RTH button once or toggle the pause switch to cancel RTH and regain control of the aircraft.

Press the RTH button once or toggle the pause switch to cancel RTH and regain control of the aircraft.

There are two ways to set a home point:

- 1. Set the current coordinates of the aircraft as the home point.
- 2. Set the current coordinates of the remote controller as the home point.

Obstacle Avoidance During RTH

In an optimal operating environment, obstacle avoidance during RTH is available. If there is an obstacle within 20 m of the aircraft, the aircraft decelerates and then stops and hovers. The aircraft will exit the RTH procedure and waits for further commands.

Landing Protection Function

Landing Protection activates during auto-landing. The procedure is as follows:

- 1. After arriving at the home point, the aircraft descends to a position 3 m above the ground and hovers.
- 2. Control the pitch and roll sticks to adjust the aircraft position and make sure the ground is suitable for landing.
- 3. Pull down the throttle stick or follow the onscreen instructions in the app to land the aircraft.

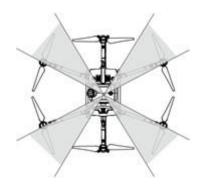
J. Spherical Radar System

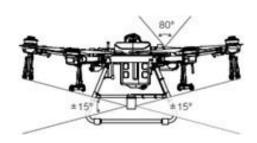
The Spherical Perception Radar System, consisting of the Omnidirectional Digital Radar and Upward Radar, works during day and night and is unaffected by light or dust. In an optimal operating environment, the omnidirectional digital radar can predict the distance between the aircraft and the vegetation or other surfaces in forward, backward, and downward directions to fly at a constant distance to ensure even spraying and terrain-following capability. The radar system can detect obstacles in all horizontal directions from 30 m away and from 15 m above in the upward direction. It effectively senses the environment and helps to circumvent obstacles in both Route and A-B Route operation modes. In addition, the radar module limits the descent speed of the aircraft according to the distance between the aircraft and the ground in order to provide a smooth landing.

The altitude stabilization and obstacle avoidance functions of the radar module are enabled by default and can be disabled in the app. When enabled, the aircraft flies above the vegetation at a constant spraying distance in Route, A-B Route, and Manual Plus operation modes. In Manual operation mode, the radar module can measure the spraying distance above the vegetation or other surfaces, but the aircraft is not able to fly at a constant spraying distance. Obstacle avoidance can be used in any mode. Auto Obstacle Avoidance is disabled by default. Users can enable it in the app.

Detection Range

The obstacle detection distance of the omnidirectional digital radar is 1.5-30 m while the upward radar has a detection distance of 1.5-15 m. The FOV of the system is shown in the figure below. The aircraft cannot sense obstacles that are not within the detection range. For the four gray areas in the figure, the detection performance of the radar module may be reduced due to the obstruction of the frame arms and landing gear. Fly with caution.





The effective detection distance varies depending on the size and material of the obstacle. When sensing objects such as buildings that have a radar cross section (RCS) of more than -5 dBsm, the effective detection distance is 20 to 30 m. When sensing objects such as power lines that have a RCS of -10 dBsm, the effective detection distance is approximately 15 m. When sensing objects such as dry tree branches that have a RCS of -15 dBsm, the effective detection distance is approximately 10 m. Obstacle sensing may be affected or unavailable in areas outside of the effective detection distance.

K. Low Voltage and Battery Warnings

The aircraft features a low battery warning, critical low battery warning, and critical low voltage warning.

- 1. When the low battery warning prompt appears in the app, fly the aircraft to a safe area and land as soon as possible. Stop the motors and replace the battery.
- 2. The aircraft will automatically descend and land when the critical low battery warning or critical voltage warning (battery voltage lower than 47.6 V) prompt appears in the app. Landing cannot be cancelled.

L. Flight Limits and Geofencing Zones

Unmanned aerial vehicle (UAV) operators should abide by the regulations from self-regulatory organizations such as the International Civil Aviation Organization, the Federal Aviation Administration, and their local aviation authorities. For safety reasons, flight limits are enabled by default to help users operate this aircraft safely and legally. Users can set flight limits on height and distance.

When operating with a strong GNSS signal, the height and distance limits and GEO zones work together to monitor the flight. With a weak GNSS signal, only the height limit prevents the aircraft from going above 100 meters.

Maximum Height and Radius Limits

Users can change the maximum height and radius limits in the app. Once completed, the aircraft flight is restricted to a cylindrical area that is determined by these settings. The tables below show the details of these limits.

GEO Zones are divided into different categories. All GEO Zones are listed on the DJI official website at http://www.dji.com/flysafe.

Flight Recording of all flights: Flight data shows a real-time video of all operator control input, GPS statuses, vibrate, shake, and motor balance statuses along with battery voltage and all other critical telemetry data allowing the operator to fully track the entire history. All flights are automatically saved on the GCS. This further adds to safety for operator and VO training as operator-caused issues can be quickly identified.

High Visibility LED Aviation Lighting: The AGRAS T-30 has Long-range visible, high-intensity LED strobes.

M. REGULATORY BASIS FOR PETITION AND REGULATIONS FROM WHICH EXEMPTION IS SOUGHT

1. 49 U.S.C § 44807

The Special Authority for Certain Unmanned Systems (49 U.S.C. § 44807) grants the Secretary of Transportation the authority to use a risk-based approach to determine whether an airworthiness certificate is required for a drone to operate safely in the NAS. Under this authority, the Secretary may grant exemptions to the applicable operating rules, aircraft requirements, and pilot requirements for a specific operation on a case-by-case basis. The Special Authority for Certain Unmanned Systems (49 U.S.C. § 44807) grants UAS operators safe and legal entry into the NAS upon consideration of its size, weight, speed, operational capability, proximity to airports and populated areas, and operation within visual line of sight. The FAA further may find that the UAS does not require "airworthiness certification under section 44704 of title 49, United States Code."

2. 49 U.S.C. § 44701

The FAA is further authorized to grant exemptions from its safety regulations and minimum standards under 49 U.S.C. § 44701 ("Section 44701") "if the Administrator finds the exemption is in the public interest." Section 44701(f) (authorizing the grant of exemptions from safety regulations and minimum standards under Section 44701(a) and (b) and Sections 44702-44716). Under 49 U.S.C. § 44701(f), the "Administrator may grant an exemption from a requirement of a regulation prescribed under subsection (a) or (b) of this section or any of sections 44702-44716 of [Title 49] if the Administrator finds the exemption is in the public interest."

For the reasons addressed herein, this Petition qualifies for expedited approval of Petitioner's request for exemption under both 49 U.S.C § 44807 and 49 U.S.C § 44701.

AeroTract seeks exemption from the following interrelated provisions of 14 CFR Parts 61, 91, and 137.

FAR	DESCR	IPTION

- § 61.3 (a)(1)(i) Requirement for certificates, ratings, and authorizations.
- § 91.7(a) Civil aircraft airworthiness.
- § 91.119(c) Minimum safe altitudes: General.
- § 91.121 Altimeter settings.
- § 91.151(b) Fuel requirements for flight in VFR conditions.
- § 91.405(a) Maintenance required.
- § 91.407(a)(1) Operation after maintenance, preventive maintenance, rebuilding, and inspections.
- § 91.409(a)(1) and (2) Inspections.
- § 91.417(a) and (b) Maintenance records.
- § 137.19 (c), (d) and (e)(2)(ii)(iii) and(v) Certification requirements.
- § 137.31 Aircraft requirements.
- § 137.33 Carrying of certificate.
- § 137.41(c) Personnel, Pilot in command.
- § 137.42 Fastening of safety belts and shoulder harnesses.

Listed below are the specific Code of Federal Regulation ("CFR") sections from which an exemption is sought, the rationale for why an exemption is needed, and a brief summary of the operating procedures and safeguards, which are described more fully in the operating documents being submitted under separate cover, which will ensure that the proposed operations can be conducted at a level of safety that is at least equal to that provided by the rule from which exemption is sought. For ease of review, this section divides the FARs from which exemption is sought into four main categories: (1) FARs pertaining to the UAS; (2) FARs pertaining to UAS Operating Parameters, and; (3) FARs pertaining to Part 137 Operating Parameters.

I. FARs Pertaining to the Unmanned Aircraft System

- § 91.405(a) Maintenance required
- § 91.407(a)(1) Operation after maintenance, preventive maintenance, rebuilding, or alteration
- § 91.409(a)(1) and (2) Inspections
- § 91.417(a) and (b) Maintenance records

AeroTract seeks an exemption from the following maintenance and inspection related FARs: §§ 91.405(a) *Maintenance required*, 91.407(a)(1) *Operation after maintenance, preventive maintenance, rebuilding, or alteration*, 91.409(a)(1) and (2) *Inspections*, and 91.417(a) and (b) *Maintenance records*. These regulations specify maintenance, inspection, and records standards in reference to FAR § 43.6. An exemption from these regulations is needed because Part 43 and these sections only apply to aircraft with an airworthiness certificate, which the UAS to be operatedunder this exemption will not have, and because compliance with these regulatory provisions in the context of UAS operations is not feasible.

An equivalent level of safety will be achieved because maintenance, inspections, and records handling will be performed in accordance with the manufacturer's manual, any required manufacturer safety or service bulletins. Moreover, the PIC will conduct a pre-flight inspection of the UAS and all associated equipment to account for all discrepancies and/or inoperable components. Maintenance will be performed and verified to address any conditions potentially affecting the safe operation of the UAS, and no flights will occur unless and until all flight-critical components of the UAS have been found to be airworthy and in a condition for safe operation. A functional test flight will also be conducted in a controlled environment following the replacement of any flight critical components, and, as required by the operating documents, the PIC who conducts the functional test flight will make an entry in the UAS aircraft records of the flight. Functional flight tests will not involve the carriage of hazardous materials. In addition, the operator will be required to follow the UAS manufacturer's maintenance, overhaul, replacement, inspection, and life limit requirements for the UAS and its components. Along with the preflight checklists, AeroTract Pilot Training Program, and a routine maintenance program, AeroTract believes an equivalent level of safety is met, and that equipment at risk of failure can be safely identified before flights occur.

In the Branch Enterprises <u>Exemption</u>, the FAA determined that the proposed UAS operations required exemption from FAR §§ 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b), and that the achievement of an adequate level of safety required certain conditions and limitations. AeroTract has proposed in this Petition a number of Limitations related to maintenance, inspections, and records which it believes provide a level of safety at least equivalent to that provided by FAR §§ 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b). For this reason, and consistent with the exemption granted from these sections in the Branch Enterprises Exemption, AeroTract requests an exemption from these sections subject to the Branch Enterprises limitations, without having to perform the inspections and maintenance items required by FAR §§ 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b).

II. FARs Pertaining to Unmanned Aircraft System Operating Parameters § 91.7(a) Civil aircraft airworthiness

Inasmuch as there will be no airworthiness certificate issued for the UAS, AeroTract seeks an exemption from FAR § 91.7(a) *Civil aircraft airworthiness*, which requires that a civil aircraft be in an airworthy condition to be operated. While the UAS operated by AeroTract will not have an airworthiness certificate, consistent with the FAA's determination in the Branch Enterprises Exemption, the pilot may determine the UA is in an airworthy condition prior to flight. As described more fully in the operating documents, this is achieved through adherence to AeroTract's routine preflight checklist regularly scheduled maintenance, and the enhanced pilot training requirements of the AeroTract Pilot Training Program.

§ 91.119(c) Minimum safe altitudes

AeroTract also seeks an exemption from FAR § 91.119(c) *Minimum safe altitudes*, to the extent necessary to allow UAS operations over *other than congested areas* at altitudes lower than those permitted by rule. The ability to operate at those altitudes is one of the key benefits of using UASfor the proposed agricultural activities. An equivalent or greater level of safety will be achieved given the size, relatively lightweight, and slow speed of the UAS, as well as the controlled location where the operations will occur.

AeroTract generally will try to maintain an operating altitude of between 7-25 feet AGL during its spraying operations. That altitude is only increased when exercising caution and issuing a return-to-launch command to the UAS, which causes the UAS to ascend to an altitude of 100 feet AGL before returning home. In the extremely remote and secure environment where AeroTract operations will occur, flying at a low altitude increases the aircraft's efficiency, without posing any increased risk to people or property. Even at these low altitudes, AeroTract UAS operations will be conducted at a level of safety equal to or greater than that achieved by a larger manned aircraft performing similar activities at the altitudes required by FAR § 91.119. Moreover, an equivalent or even higher level of safety can be provided instead by, as provided herein, operating so as to de-conflict with manned vehicles operating above 500 feet AGL, within the VLOS of the PIC with the assistance of a VO so as to ensure the safety of and de-confliction with any persons or property in the air and on the ground, including Participating and non-Participating personnel as well as the other UAS.

§ 91.121 Altimeter settings

AeroTract also requests an exemption from FAR § 91.121 *Altimeter settings*, which requires a person operating an aircraft to maintain cruising altitude or flight level by reference to an altimeter that is set to the elevation of the departure airport or barometric pressure. In the <u>Branch Enterprises Exemption</u>, the FAA stated that an equivalent level of safety to the requirements of FAR § 91.121 can be achieved in circumstances where the PIC uses an alternative means for measuring and reporting UA altitude, such as on board radar system that is highly accurate (+/- 5 cm) within 30 m of the surface and its onboard automated obstacle avoidance system. The UAS that AeroTract intends to usefor performing the proposed operations will be equipped with GPS or other equipment for measuringand reporting UAS altitude, and the PIC will check the UA altitude reading prior to each takeoff, effectively zeroing the UA's altitude at that point. Consistent with previously granted exemptions, these requirements ensure that an equivalent level of safety will be achieved, and an exemption from the requirements of FAR § 91.121 is therefore appropriate.

§ 91.151(b), Fuel requirements for flight in VFR conditions

Finally, AeroTract seeks an exemption from b) 12 FAR § 91.151 (Fuel requirements for flight in VFR conditions, which would otherwise require a 20-minute fuel reserve to be maintained. The FAA has previously determined that a requirement prohibiting the PIC from beginning a UAS flight unless (considering wind and forecast weather conditions) there was enough available power for UAS to operate for the intended operational time and to operate after that with the reserve power recommended by the manufacturer which would ensure an equivalent level of safety to the fuel requirements of FAR § 91.151. AeroTract will adhere to the same reserve power requirement and an exemption from FAR § 91.151's fuel requirements for flight in VFR conditions is therefore appropriate.

III. FARs Pertaining to Part 137 Certification Requirements

AeroTract seeks an exemption from the following FARs in Part 137: §§ 137.19(c), (d) and (e)(2)(ii)(iii) and (v) Certification requirements, 137.31 Aircraft requirements, 137.33 Carrying of certificate, 137.41(c) Personnel, and 137.42 Fastening of safety belts and shoulder harnesses. An exemption from these FARs is necessary because the provisions are either not compatible with or are unnecessary in the context of the proposed UAS operations.

§ 137.19(c) Certification requirements

In the previous exemption granted to <u>Branch Enterprises</u>, the FAA determined that relief from § 137.19(c) was necessary to permit persons holding a remote PIC certificate with small UAS rating to act as PIC for commercial agricultural aircraft operations when utilizing a small UAS to conduct the operations. The FAA found that a commercial or airline transport certificate that § 137.19(c) requires was not a reasonable requirement for the UAS agricultural operations proposed by <u>Branch Enterprises</u>. The basis for the relief was that <u>Branch Enterprise's</u> remote PICs would comply not only with the requirements of Part 107, subpart C but also with the additional knowledge and applicable skill requirements in FAR § 137.19(e)(1) and (2)(i), (iv) and (vi). The relief was also based, in Part, on <u>Branch Enterprises'</u> compliance with the training requirements in its operating documents.

The proposed operations are identical to that previously approved by the FAA in Exemption No.18579. Consistent with the FAA's prior analysis, compliance with the requirements of Part 107, subpart C, the additional knowledge and applicable skill requirements in FAR § 137.19(e)(1) and (2)(i), (iv) and (vi), and compliance with the training requirements in AeroTract operating documents, will ensure that an equivalent level of safety will be achieved.

§ 137.19(d) Certification requirements § 137.31 Aircraft requirements

In Exemption No. 18579, the FAA granted <u>Branch Enterprises</u> an exemption to § 137.19(d), *Certification requirements*, and 137.31(a), *Aircraft requirements*. Consistent with the FAA's prior analysis in Exemption No. 18579, while AeroTract UAS will not have an airworthiness certificate, AeroTract will be capable of ensuring that the UAS are in a condition for safe operation based upon a thorough pre-flight inspection and compliance with the operating documents. The UAS components have a proven operational history and contain design safety features such that operations conducted under the requirements of this exemption will not adversely impact safety.

§ 137.19(e)(2)(ii), (iii), and (v) Certification requirements

AeroTract seeks an exemption from the knowledge and skill test requirements in § 137.19(e)(2)(ii), (iii), and (v) *Certification requirements* because those requirements are not compatible or applicable to AeroTract proposed UAS operations. Consistent with the FAA's prior analysis in Exemption No. 18579, AeroTract training and certification program described in the operating documents provides the remote PIC with the necessary skills to safely operate the UAS. For this reason, granting relief from a demonstration of the skills described in § 137.19(e)(2)(ii), (iii), and (v) will not adversely impact safety, and therefore relief is warranted. AeroTract pilots operating UAS under the exemption will still be required to demonstrate the skills listed at § 137.19(e)(2) as applicable, in accordance with the provisions of § 137.19(e), which requires such demonstration in order to obtain the agricultural aircraft operator certificate, unless otherwise exempted. Also, consistent with the FAA's finding in Exemption No. 18579, that relief from the associated knowledge and skill test requirements of § 137.41(c) is also warranted because of the relief provided to § 137.19(e)(2)(ii), (iii), and (v), AeroTract seeks an exemption from the interrelated knowledge and skill test requirements of § 137.41(c).

§ 137.31(b) Aircraft requirements

§ 137.42 Fastening of safety belts and shoulder harnesses

AeroTract seeks an exemption from § 137.31(b) Aircraft requirements, and § 137.42 Fastening of safetybelts and shoulder harnesses, which relate to the installation and use of a shoulder harness and safetybelt on an aircraft. An exemption from these requirements is warranted because AeroTract UAS do not have an onboard pilot and these regulations are intended to ensure the safety of the onboard pilot during manned agricultural aircraft operations. For this reason, granting the requested relief from §§ 137.31(b) and 137.42 will not adversely impact safety.

§ 137.33(a) and (b) Carrying of certificate

AeroTract requests relief from § 137.33(a) Carrying of certificate, which requires that a facsimile of the agricultural aircraft operator certificate be carried on the aircraft. The FAA has previously determined that relief from §§ 91.9(b)(2) and 91.203(a) and (b) for the carriage of the aircraft flight manual and aircraft registration onboard the aircraft is not necessary. Consistent with the FAA's prior analysis, an exemption is warranted here provided that a facsimile of the agricultural aircraft operator certificate and all certificates of registration are kept in a location accessible to the remote PIC.

Finally, given that AeroTract UAS will not have an airworthiness certificate, relief from § 137.33(b) *Carrying of certificate*, which requires the airworthiness certificate (if not carried in the aircraft) be kept available for inspection at the base of dispensing operation is conducted, is necessary. AeroTract will keep registration certificates available for inspection.

AeroTract has attempted to identify the appropriate C.F.R.s from which an exemption is needed in orderto conduct the proposed operations in this Petition for Exemption. To the extent that the FAA determines that AeroTract needs an exemption from other C.F.R.s which are not addressed or explicitlynamed in order to conduct the proposed operations, Aerotract also seeks an exemption from those FARsfor the reasons outlined above.

N. PILOT CERTIFICATION

§ 61.3 (a)(1)(i) Requirement for certificates, ratings, and authorizations.

No person may serve as a required pilot flight crewmember of a civil aircraft of the United States unless that person:

- (1) has in the person's physical possession or readily accessible in the aircraft when exercising the privileges of that pilot certificate or authorization –
- (i) a pilot certificate issued under this part.

The petitioner will conduct the proposed operations under 14 CFR part 91, rather than under part 107. In general, part 91 is predicated on the presumption that the pilot in command conducting an operation under part 91 holds an airman certificate under part 61. As a result, the FAA has determined granting exemption from the requirement of § 61.3(a)(1)(i) to require a person holding a remote pilot in command certificate (with the appropriate training and demonstration of knowledge and skills required by this exemption) to conduct the operations to which this exemption applies will ensure clarity.

The statutory obligation for an airman certificate is codified at 49 U.S.C. § 44711(a)(2). Pilots who conduct operations under this exemption with a remote pilot in command certificate would comply with § 44711(a)(2), as the FAA described in the Operation and Certification of Small Unmanned Aircraft Systems final rule (81 FR 42064, 42088-89 (June 28, 2016). The general requirements for all airmen include: eligibility, aeronautical knowledge, and Transportation Security Administration (TSA) vetting. Given that the operation would occur only after airmen who hold a current remote pilot in command certificate have received specific training, have visited the area of operation, and are fully capable of using the tools available to prepare for the operation, conduct comprehensive preflight actions, and conduct the operation only in a limited geographical area, the FAA has previously determined that a remote pilot certificate issued under 14 CFR part 107 provides the FAA sufficient assurance of the pilots' qualifications and abilities to perform the duties related to the operations authorized under this exemption. The remote pilot in command certificate confirms the petitioner's eligibility, secures TSA vetting, and ensures the PIC has the requisite aeronautical knowledge for operating the UAS within the NAS.

Remote pilots conducting operations under part 107 must complete a detailed aeronautical knowledge test unless they already hold a certificate under 14 CFR part 61 and meet the flight review requirements specified in § 61.56.9 As a result, all such pilots will have the requisite aeronautical knowledge that is a key component of safe completion of all operations that will occur under this exemption. In this regard, the FAA addressed the applicable parts of § 61.125, Aeronautical knowledge, in the remote pilot in command certificate requirements.

For the reasons discussed below, this same rationale espoused by the FAA in previously approved exemptions, combined with AeroTract proposed safety mitigations, also supports a finding that the proposed operations under the requested exemptions can be conducted without adversely affecting safety.

While it is true that operations involving UAS weighing 55 pounds or more could raise additional safety concerns than operations involving small UAS, the unique nature of the proposed operations, including the low-risk rural environments in which the operations will occur, will ensure that safety is not jeopardized. While Part 107 will not apply to the proposed operations, wherever possible, AeroTract intends to conduct the proposed operations in accordance with Part 107. Moreover, all UAS operations that meet the definition of an "agricultural aircraft operation" will be conducted in accordance with those portions of Part 137 from which AeroTract is not exempted. In addition to compliance with Part 107 and the applicable sections of Part 137, AeroTract proposed operations include the following mitigations, however, a full SRM regarding certain elements of the operation is also included:

- Prior to any flight operation, AeroTract will visit the area of the planned operation and inspect the terrain and vantage points. AeroTract utilizes a number of tools available to capture this environmental data, including high-resolution LiDAR, photogrammetry, UAS, and handheld surveying tools. The result is a geo-rectified model of the unit, with GPS points accurately marking the boundaries of the geofenced flight operating area.
- Safety procedures and mitigations for simultaneous operation of the UAS are contained within the safety section of the enclosed Flight Operations and Procedures Manual.
- Following that, all state and local paperwork associated with the operation will be filed before and after operations. AeroTract will comply with all state laws regarding the application of pesticides. These include state and local agency notification, mapping, and specified safety procedures.
- The PIC will hold a Part 107 remote pilot airman certificate and be at least 18 years of age.
- Prior to beginning operations, the PIC will take all preflight actions as set forth in its flight manual, which includes a comprehensive preflight checklist.
- At least one visual observer (VO) will be used for each aircraft during all operations. Both the PIC and VO will maintain a safe distance from the UAS when it is operating as set forth in its flight manual.
 - Flights will be limited to a maximum altitude of no more than 200 feet above ground level (AGL) and will normally be flown at average altitudes of 10 to 50 feet AGL or less over private fields and other agricultural areas.
- The areas to be flown are remote agricultural sites or other uninhabited agricultural sites which makes for excellent VLOS conditions.
- All operations will occur in a closed-access environment.
- All personnel at the site will be controlled by AeroTract at the time of flying. The AGRAS T-30 shall operate from on-site takeoff/landing locations directly next to the PIC and co-located VO. The PIC and the VO will be able to verbally communicate during all operations or will utilize hand-held radios on site. In addition, signage announcing future spraying operations will be posted at the site entrance warning any customer employees or non-Participants that an aerial spraying operation is occurring. This is an industry-standard process.
- The maximum flight time for each UAS flight will be a maximum of 40 minutes, with most agricultural flights lasting approximately 10-20 minutes.

I. AeroTract's Enhanced Pilot Training and Experience Standards

Through its robust training program, which requires aeronautical knowledge, experience, and flight proficiency beyond that required by Part 107, AeroTract will be able to achieve a level of safety equivalent to what would be obtained using a PIC holding a manned pilot certificate under Part 61.

AeroTract has integrated safety elements into the operation of its UAS, including comprehensive pilot and VO training and certification requirements that establish an equivalent level of safety to operations conducted with a PIC that holds a manned pilot certificate. These requirements include: a comprehensive UAS training course, which includes theory and practical components, a pilot theory exam, supervised flight training, including agricultural spraying, completion of AeroTract training and examination program requirements, minimum flight time requirements, demonstrated practical flying ability for the relevant tasks, and continued periodic training aftercertification.

Aeronautical Knowledge

The following chart addresses each aeronautical knowledge requirement of § 61.125 and explains whether it is relevant to, different from, or addressed by Part 107 operations or AeroTract internal procedures.

§ 61.1	27 Aeronautical Knowledge	AeroTract Operations Under Part 107
(1) Applicable Federal Aviation Regulations of this chapter that relate to commercial pilot privileges, limitations, and flight operations.		Addressed by Part 107
	(2) Accident reporting.	Addressed by part 107
(3) Basic	c Aerodynamics and the principles of flight.	Topics applicable to unmanned aircraft are included in Part 107.
	(4) Meteorology	Applicable meteorology principles are covered by Part 107.
(5) Saf	e and Efficient Operation of Aircraft	Covered by Part 107 and included in Aerotract Training. Topics applicable to unmanned aircraft are included in Part 107.
	(6) Weight and Balance	"Loading and Performance" is addressed by part 107. AeroTract will comply with the weight limitations of Part 107 and will ensure that external loads do not negatively impact flight characteristics, as required by Part 107.
	(7) Performance Charts	Not directly applicable.
(8) Effec	cts of exceeding aircraft performance limitations	"Loading and Performance" is addressed by part 107. AeroTract will comply with the weight limitations of Part 107 and will ensure that external loads do not negatively impact flight characteristics, as required by Part 107.
(9)) Pilotage and dead reckoning	Not applicable.
(10)	Use of air navigation facilities	Topics applicable to unmanned aircraft are included in part 107.
(11)	Decision making and judgement	Addressed by part 107
(12)	Principles and functions of aircraft systems	Addressed by part 107 and by AeroTract internal procedures and use of operations manuals.
(1	3) Emergency Systems	Addressed by part 107
(14)	Night and High Altitude Flight	Not applicable.
(15)	Operating within the system	National airspace covered by Part 107.
(16	S) Lighter than air ratings	Not applicable.

Flight Proficiency

FAR § 61.127 contains flight proficiency requirements for specified aircraft categories. Part 107 contains no flight proficiency requirements, however, to ensure adequate flight proficiency, AeroTract will require demonstrated multi-rotor proficiency in:

- Preflight preparation;
- Preflight procedures;
- Hovering maneuvers;
- Takeoffs, landings, and go-arounds;
- · Performance maneuvers;
- Navigation;
- · Emergency operations;
- · Special operations; and
- · Postflight procedures.

Aeronautical Experience

FAR § 61.129 contains requirements for aeronautical experience that are not required for operations conducted under Part 107. To ensure an adequate level of aeronautical experience, AeroTract will require its pilots to obtain an appropriate level of aeronautical experience, using § 61.129 as a guide, where applicable and reasonable. Many of the requirements § 61.129, however, are either inapplicable or excessive for AeroTract proposed operations. Commercial helicopter ratings require at least 150 hours of flight time. Much of this, however, need not be in a helicopter or as the PIC. Other flight time requirements in Part 61 are cross-country time or instrument time. There is no need for Part 107 remote pilots to obtain time spent in cross-country flight or instrument flight. AeroTract pilots will spend all of their time flying the make and model of multi-rotor aircraft that will be used in their operations. These aircraft are far less complicated than manned aircraft. The pilots can, therefore, achieve a comparable level of experience and safety by requiring at least 5 hours of total flight time of a multi-rotor system as the PIC. This will be required by the operations manual and training program.

O. Conditions and Limitations

AeroTract agrees to conduct the proposed operations in accordance with the same applicable conditions and limitations ("Limitations") included in the previous Branch Enterprises Exemption No. 18579. However, AeroTract seeks relief from the conditions and limitations of number 27c. Number 27c states that:

27. All flight operations must be conducted at least 500 feet from all persons who are not directly participating in the operation, and from vessels, vehicles, and structures, unless when operating: c. Near vessels vehicles and structures. Prior to conducting operations, the operator must obtain permission from a person with the legal authority over any vessels, vehicles, or structures that will be within 500 feet of the UA during operations. The PIC must make a safety assessment of the risk of operating closer to those objects and determine that it does not present an undue hazard.

It is the vehicle language specifically within 27c that AeroTract seeks relief from. It is completely unrealistic and impractical during routine row crop spraying operations at low altitudes to stop each moving vehicle that could potentially be traveling a road along the field to seek permission to fly adjacent to the road.

To expedite the FAA's safety assessment of the proposed relief sought, AeroTract has included a robust SRM along with a specific model to safely establish more reasonable setback distances from roads.

P. FEDERALREGISTER SUMMARY

Pursuant to Title 49 U.S.C. § 44807, Special authority for certain unmanned aircraft systems and 14 C.F.R. Part 11, 49 U.S.C. § 44701(f), and 14 C.F.R. Part 11, the following summary is provided for publication in the FEDERAL REGISTER, should it be determined that publication is needed:

Petitioner seeks an exemption from the following rules in Title 14 of the Code of Federal Regulations:

61.3 (a)(1)(i), 91.7(a), 91.119(c), 91.121, 91.151(b), 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), 91.417(a) and (b), 137.19(c), (d) and (e)(2)(ii)(iii) and (v), 137.31, 137.33, 137.41(c), 137.42.

AeroTract requests an exemption for the purpose of operating Unmanned Aircraft Systems (UAS) weighing 55 pounds or more, but no more than and 172 pounds, to provide commercial agricultural-related services in the United States. The relief requested is similar to that granted in Exemption No. 18579, Branch Enterprises.

Q. CONCLUSION

